

**CLAIMS**

- [c1]        ①.     A method for delivering information to a mobile station in a group communication network, the method comprising:
- determining whether the information is smaller than a predetermined size limit; and
- delivering the information to the mobile station on a forward common channel if the information is smaller than the predetermined size limit.
- [c2]        2.     The method of claim 1, wherein the delivering includes delivering the information when the mobile station is in idle state with no traffic channel.
- [c3]        3.     The method of claim 1 wherein the delivering the information includes delivering the information on a forward paging channel (F-PCH).
- [c4]        4.     The method of claim 1, wherein the delivering the information includes delivering the information on a forward common control channel (F-CCCH).
- [c5]        5.     The method of claim 1, wherein delivering the information includes delivering the information in short data burst (SDB) form.
- [c6]        ⑥.     A computer-readable medium embodying a method delivering information to a mobile station in a group communication network, the method comprising:
- determining whether the information is smaller than a predetermined size limit; and
- delivering the information to the mobile station on a forward common channel if the information is smaller than the predetermined size limit.
- [c7]        7.     The computer-readable medium of claim 6, wherein the delivering includes delivering the information when the mobile station is in idle state with no traffic channel.
- [c8]        8.     The computer-readable medium of claim 6, wherein the delivering the information includes delivering the information on a forward paging channel (F-PCH).
- [c9]        9.     The computer-readable medium of claim 6, wherein the delivering the information includes delivering the information on a forward common control channel (F-CCCH).

[c10] 10. The computer-readable medium of claim 6, wherein the delivering the information includes delivering the information in short data burst (SDB) form.

[c11] (11) An apparatus for delivering information to a mobile station in a group communication network, comprising:

means for determining whether the information is smaller than a predetermined size limit; and

means for delivering the information to the mobile station on a forward common channel if the information is smaller than the predetermined size limit.

[c12] 12. The apparatus of claim 11, wherein the means for delivering includes means for delivering the information when the mobile station is in idle state with no traffic channel.

[c13] 13. The apparatus of claim 11 wherein the means for delivering the information includes means for delivering the information on a forward paging channel (F-PCH).

[c14] 14. The apparatus of claim 11, wherein the means for delivering the information includes means for delivering the information on a forward common control channel (F-CCCH).

[c15] 15. The apparatus of claim 11, wherein means for delivering the information includes means for delivering the information in short data burst (SDB) form.

[c16] (16) An apparatus for delivering information to a mobile station in a group communication network, comprising:

a receiver to receive information over the network;  
a transmitter to transmit information over the network; and  
a processor communicatively coupled with the receiver and the transmitter, the processor being capable of:

determining whether the information is smaller than a predetermined size limit; and  
delivering the information to the mobile station on a forward common channel if the information is smaller than the predetermined size limit.

- [c17] 17. The apparatus of claim 16, wherein the delivering includes delivering the information when the mobile station is in idle state with no traffic channel.
- [c18] 18. The apparatus of claim 16 wherein the delivering the information includes delivering the information on a forward paging channel (F-PCH).
- [c19] 19. The apparatus of claim 16, wherein the delivering the information includes delivering the information on a forward common control channel (F-CCCH).
- [c20] 20. The apparatus of claim 16, wherein delivering the information includes delivering the information in short data burst (SDB) form.
- [c21] 21. A method for delivering information to a mobile station in a group communication network, the method comprising:
- encapsulating the information inside a frame;
  - forwarding the frame to a server for delivery to the mobile station; and
  - causing the server to extract the information from the frame and deliver the information to the mobile station on a forward common channel.
- [c22] 22. The method of claim 21, wherein the causing the server to deliver the information includes causing the server to deliver the information when the mobile station is in idle state with no traffic channel.
- [c23] 23. The method of claim 21 wherein causing the server to deliver the information includes causing the server to deliver the information on a forward paging channel (F-PCH).
- [c24] 24. The method of claim 21, wherein causing the server to deliver the information includes causing the server to deliver the information on a forward common control channel (F-CCCH).
- [c25] 25. The method of claim 21, wherein causing the server to deliver the information includes causing the server to deliver the information in short data burst (SDB) form.

[c26] (26.) A computer-readable medium embodying a method delivering information to a mobile station in a group communication network, the method comprising:

- encapsulating the information inside a frame;
- forwarding the frame to a server for delivery to the mobile station; and
- causing the server to extract the information from the frame and deliver the information to the mobile station on a forward common channel.

[c27] 27. The computer-readable medium of claim 26, wherein the causing the server to deliver the information includes causing the server to deliver the information when the mobile station is in idle state with no traffic channel.

[c28] 28. The computer-readable medium of claim 26, wherein the causing the server to deliver the information includes causing the server to deliver the information on a forward paging channel (F-PCH).

[c29] 29. The computer-readable medium of claim 26, wherein the causing the server to deliver the information includes causing the server to deliver the information on a forward common control channel (F-CCCH).

[c30] 30. The computer-readable medium of claim 26, wherein the delivering the information includes delivering the information in short data burst (SDB) form.

[c31] (31.) An apparatus for delivering information to a mobile station in a group communication network, comprising:

- means for encapsulating the information inside a frame;
- means for forwarding the frame to a server for delivery to the mobile station; and
- means for causing the server to extract the information from the frame and deliver the information to the mobile station on a forward common channel.

[c32] 32. The apparatus of claim 31, wherein the means for causing the server to deliver the information includes means for causing the server to deliver the information when the mobile station is in idle state with no traffic channel.

[c33] 33. The apparatus of claim 31 wherein means for causing the server to deliver the information includes means for causing the server to deliver the information on a forward paging channel (F-PCH).

[c34] 34. The apparatus of claim 31, wherein the means for causing the server to deliver the information includes means for causing the server to deliver the information on a forward common control channel (F-CCCH).

[c35] 35. The apparatus of claim 31, wherein the means for causing the server to deliver the information includes means for causing the server to deliver the information in short data burst (SDB) form.

[c36] 36. An apparatus for delivering information to a mobile station in a group communication network, comprising:

- a receiver to receive information over the network;
- a transmitter to transmit information over the network; and
- a processor communicatively coupled with the receiver and the transmitter, the processor being capable of:
  - encapsulating the information inside a frame;
  - forwarding the frame to a server for delivery to the mobile station; and
  - causing the server to extract the information from the frame and deliver the information to the mobile station on a forward common channel.

[c37] 37. The apparatus of claim 36, wherein the causing the server to deliver the information includes causing the server to deliver the information when the mobile station is in idle state with no traffic channel.

[c38] 38. The apparatus of claim 36, wherein causing the server to deliver the information includes causing the server to deliver the information on a forward paging channel (F-PCH).

[c39] 39. The apparatus of claim 36, wherein causing the server to deliver the information includes causing the server to deliver the information on a forward common control channel (F-CCCH).

[c40] 40. The apparatus of claim 36, wherein causing the server to deliver the information includes causing the server to deliver the information in short data burst (SDB) form.

[c41] 41. A method for delivering information to a mobile station in a group communication network, the method comprising:

receiving information for delivery to the mobile station, the information being tagged for delivery over a forward common channel; and

delivering the information to the mobile station over the forward common channel.

[c42] 42. The method of claim 41, wherein the delivering includes delivering the information when the mobile station is in idle state with no traffic channel.

[c43] 43. The method of claim 41 wherein the delivering the information includes delivering the information on a forward paging channel (F-PCH).

[c44] 44. The method of claim 41, wherein the delivering the information includes delivering the information on a forward common control channel (F-CCCH).

[c45] 45. The method of claim 41, wherein delivering the information includes delivering the information in short data burst (SDB) form.

[c46] 46. A computer-readable medium embodying a method delivering information to a mobile station in a group communication network, the method comprising:

receiving information for delivery to the mobile station, the information being tagged for delivery over a forward common channel; and

delivering the information to the mobile station over the forward common channel.

[c47] 47. The computer-readable medium of claim 46, wherein the delivering includes delivering the information when the mobile station is in idle state with no traffic channel.

[c48] 48. The computer-readable medium of claim 46, wherein the delivering the information includes delivering the information on a forward paging channel (F-PCH).

[c49] 49. The computer-readable medium of claim 46, wherein the delivering the information includes delivering the information on a forward common control channel (F-CCCH).

[c50] 50. The computer-readable medium of claim 6, wherein the delivering the information includes delivering the information in short data burst (SDB) form.

[c51] 51. An apparatus for delivering information to a mobile station in a group communication network, comprising:

means for receiving information for delivery to the mobile station, the information being tagged for delivery over a forward common channel; and

means for delivering the information to the mobile station over the forward common channel.

[c52] 52. The apparatus of claim 51, wherein the means for delivering includes means for delivering the information when the mobile station is in idle state with no traffic channel.

[c53] 53. The apparatus of claim 51 wherein the means for delivering the information includes means for delivering the information on a forward paging channel (F-PCH).

[c54] 54. The apparatus of claim 51, wherein the means for delivering the information includes means for delivering the information on a forward common control channel (F-CCCH).

[c55] 55. The apparatus of claim 51, wherein means for delivering the information includes means for delivering the information in short data burst (SDB) form.

[c56] 56. An apparatus for delivering information to a mobile station in a group communication network, comprising:

a receiver to receive information over the network;

a transmitter to transmit information over the network; and

a processor communicatively coupled with the receiver and the transmitter, the processor being capable of:

delivering the information to the mobile station over the forward common channel.

[c58] 58. The apparatus of claim 56 wherein the delivering the information includes delivering the information on a forward paging channel (F-PCH).

60. The apparatus of claim 56, wherein delivering the information includes delivering the information in short data burst (SDB) form.